

What is claimed is:

1. An information processing apparatus comprising a display device and a touch panel disposed in front of said display device, said information processing apparatus further comprising:

a mode switching unit for switching between a touch panel mode of operation and a pointing device mode of operation in accordance with a predetermined condition;

a touch panel processing unit for performing processing in response to a touch position pointed to by a user on said touch panel in said touch panel mode of operation;

a pointing processing unit for displaying a symbol indicative of a pointing position on said display device in said pointing device mode of operation, and for moving said symbol at a predetermined reduction scale factor on said display device in accordance with the distance, direction and velocity of the relative movement of said touch position pointed to by said user on said touch panel; and

a display magnifying processing unit for displaying an image in the neighborhood of said symbol in a magnified form in a predetermined region on said touch panel in said pointing device mode of operation.

2. An apparatus as set forth in claim 1, wherein said predetermined reduction scale factor can be changed by said user.

3. An apparatus as set forth in claim 1, wherein when said touch position moves to reach a boundary of said predetermined region, said display device magnifying processing unit moves the boundary of said predetermined region as said touch position moves, so as to maintain the current mode.

4. An apparatus as set forth in claim 1, wherein
said mode switching processing unit establishes said
pointing device mode of operation when said touch position
lies inside said predetermined region, and said mode
5 switching processing unit establishes said touch panel
mode of operation when said touch position lies outside
said predetermined region.

5. An apparatus as set forth in claim 1, wherein,
10 when said touch position in said predetermined region
exhibits a locus substantially representative of a full
circle in a predetermined direction, said display
magnifying processing unit changes a scale factor of the
magnification at which said image in the neighborhood of
15 said symbol is magnified.

6. An apparatus as set forth in claim 1, wherein,
when clickable objects, the number of which is larger than
a predetermined number, lie within a predetermined range
20 in the neighborhood of the current touch position, said
display magnifying processing unit operates in said touch
panel mode of operation.

7. An information processing apparatus comprising
25 a display device and a touch panel disposed in front of
said display device, said information processing apparatus
further comprising:

a mode switching unit for switching between a touch
panel mode of operation and a pointing device mode of
30 operation in accordance with a predetermined condition;

a touch panel processing unit for displaying a
symbol indicative of a pointing position on said display
device in said touch panel mode of operation, so that the
position of said symbol is aligned with a touch position
35 pointed to by a user on said touch panel;

a pointing processing unit for moving, in said
pointing device mode of operation, the position of said

symbol indicative of said pointing position on said display device in accordance with the distance, direction and velocity of the relative movement of said touch position pointed to by said user on said touch panel; and

5 a display magnifying processing unit for displaying an image in the neighborhood of said symbol in a magnified form in a predetermined region on said touch panel in said pointing device mode of operation.

10 8. An apparatus as set forth in claim 7, wherein said predetermined reduction scale factor can be changed by said user.

15 9. An apparatus as set forth in claim 7, wherein when said touch position moves to reach a boundary of said predetermined region, said display device magnifying processing unit moves the boundary of said predetermined region as said touch position moves, so as to maintain the current mode.

20 10. An apparatus as set forth in claim 7, wherein said mode switching processing unit establishes said pointing device mode of operation when said touch position lies inside said predetermined region, and said mode switching processing unit establishes said touch panel mode of operation when said touch position lies outside said predetermined region.

30 11. An apparatus as set forth in claim 7, wherein, when said touch position in said predetermined region exhibits a locus substantially representative of a full circle in a predetermined direction, said display magnifying processing unit changes a scale factor of the magnification at which said image in the neighborhood of
35 said symbol is magnified.

12. An apparatus as set forth in claim 7, wherein,

when clickable objects, the number of which is larger than a predetermined number, lie within a predetermined range in the neighborhood of the current touch position, said display magnifying processing unit operates in said touch panel mode of operation.

13. A program product stored on a storage medium for an information processing apparatus comprising a display device and a touch panel disposed in front of said display device, said program product being operable to effect the steps of:

switching between a touch panel mode of operation and a pointing device mode of operation in accordance with a predetermined condition;

performing processing in response to a touch position pointed to by a user on said touch panel in said touch panel mode of operation;

displaying a symbol indicative of a pointing position on said display device in said pointing device mode of operation, and moving said symbol at a predetermined reduction scale factor on said display device in accordance with the distance, direction and velocity of the relative movement of said touch position pointed to by said user on said touch panel; and

displaying an image in the neighborhood of said symbol in a magnified form in a predetermined region on said touch panel in said pointing device mode of operation.

14. A program product stored on a storage medium for an information processing apparatus comprising a display device and a touch panel disposed in front of said display device, said program product being operable to effect the steps of:

a mode switching processing unit for switching between a touch panel mode of operation and a pointing device mode of operation in accordance with a

predetermined condition;

displaying a symbol indicative of a pointing position on said display device in said touch panel mode of operation so that the position of said symbol is
5 aligned with a touch position pointed to by a user on said touch panel;

moving, in said pointing device mode of operation, the position of said symbol indicating said pointing position on said display device in accordance with the
10 distance, direction and velocity of the relative movement of said touch position pointed to by said user on said touch panel; and

displaying an image in the neighborhood of said symbol in a magnified form in a predetermined region on
15 said touch panel in said pointing device mode of operation.